

18" x 36" Drum Sander

(Models 31-250, 31-255X)

INSTRUCTION MANUAL



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visit our website at: www.deltamachinery.com.

For Parts, Service, Warranty or other Assistance,

please call 1-800-223-7278 (In Canada call 1-800-463-3582).

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols to the right. Please read the manual and pay attention to these sections.

- ▲ DANGER** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
- ▲ WARNING** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
- ▲ CAUTION** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- CAUTION** Used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

▲ WARNING **SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES** contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, always wear **MSHA/NIOSH** approved, properly fitting face mask or respirator when using such tools.

GENERAL SAFETY RULES



▲ WARNING **READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT.** Failure to follow all instructions listed below, may result in electric shock, fire, and/or serious personal injury or property damage.

IMPORTANT SAFETY INSTRUCTIONS

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. **REMEMBER:** Your personal safety is your responsibility. For additional information please visit our website www.deltamachinery.com.

▲ WARNING This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, **DO NOT** use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

Technical Service Manager
Delta Machinery
4825 Highway 45 North
Jackson, TN 38305
(IN CANADA: 505 SOUTHGATE DRIVE, GUELPH, ONTARIO N1H 6M7)

▲ WARNING FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

- 1. FOR YOUR OWN SAFETY, READ THE INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE.** Learning the machine's application, limitations, and specific hazards will greatly minimize the possibility of accidents and injury.
- 2. USE CERTIFIED SAFETY EQUIPMENT.** Eye protection equipment should comply with ANSI Z87.1 standards, hearing equipment should comply with ANSI S3.19 standards, and dust mask protection should comply with MSHA/NIOSH certified respirator standards. Splinters, air-borne debris, and dust can cause irritation, injury, and/or illness.
- 3. DRESS PROPERLY.** Do not wear tie, gloves, or loose clothing. Remove watch, rings, and other jewelry. Roll up your sleeves. Clothing or jewelry caught in moving parts can cause injury.
- 4. DO NOT USE THE MACHINE IN A DANGEROUS ENVIRONMENT.** The use of power tools in damp or wet locations or in rain can cause shock or electrocution. Keep your work area well-lit to prevent tripping or placing arms, hands, and fingers in danger.
- 5. MAINTAIN ALL TOOLS AND MACHINES IN PEAK CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories. Poorly maintained tools and machines can further damage the tool or machine and/or cause injury.
- 6. CHECK FOR DAMAGED PARTS.** Before using the machine, check for any damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, and any other conditions that may affect its operation. A guard or any other part that is damaged **should be properly repaired or replaced.** Damaged parts can cause further damage to the machine and/or injury.
- 7. KEEP THE WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 8. KEEP CHILDREN AND VISITORS AWAY.** Your shop is a potentially dangerous environment. Children and visitors can be injured.
- 9. REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure that the switch is in the "OFF" position before plugging in the power cord. In the event of a power failure, move the switch to the "OFF" position. An accidental start-up can cause injury.
- 10. USE THE GUARDS.** Check to see that all guards are in place, secured, and working correctly to prevent injury.
- 11. REMOVE ADJUSTING KEYS AND WRENCHES BEFORE STARTING THE MACHINE.** Tools, scrap pieces, and other debris can be thrown at high speed, causing injury.
- 12. USE THE RIGHT MACHINE.** Don't force a machine or an attachment to do a job for which it was not designed. Damage to the machine and/or injury may result.
- 13. USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by Delta may cause damage to the machine or injury to the user.
- 14. USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. See the Extension Cord Chart for the correct size depending on the cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- 15. SECURE THE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. Loss of control of a workpiece can cause injury.
- 16. FEED THE WORKPIECE AGAINST THE DIRECTION OF THE ROTATION OF THE BLADE, CUTTER, OR ABRASIVE SURFACE.** Feeding it from the other direction will cause the workpiece to be thrown out at high speed.
- 17. DON'T FORCE THE WORKPIECE ON THE MACHINE.** Damage to the machine and/or injury may result.
- 18. DON'T OVERREACH.** Loss of balance can make you fall into a working machine, causing injury.
- 19. NEVER STAND ON THE MACHINE.** Injury could occur if the tool tips, or if you accidentally contact the cutting tool.
- 20. NEVER LEAVE THE MACHINE RUNNING UNATTENDED. TURN THE POWER OFF.** Don't leave the machine until it comes to a complete stop. A child or visitor could be injured.
- 21. TURN THE MACHINE "OFF", AND DISCONNECT THE MACHINE FROM THE POWER SOURCE** before installing or removing accessories, before adjusting or changing set-ups, or when making repairs. An accidental start-up can cause injury.
- 22. MAKE YOUR WORKSHOP CHILDPROOF WITH PADLOCKS, MASTER SWITCHES, OR BY REMOVING STARTER KEYS.** The accidental start-up of a machine by a child or visitor could cause injury.
- 23. STAY ALERT, WATCH WHAT YOU ARE DOING, AND USE COMMON SENSE. DO NOT USE THE MACHINE WHEN YOU ARE TIRED OR UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR MEDICATION.** A moment of inattention while operating power tools may result in injury.
- 24. THE DUST GENERATED** by certain woods and wood products can be injurious to your health. Always operate machinery in well-ventilated areas, and provide for proper dust removal. Use wood dust collection systems whenever possible.

ADDITIONAL SAFETY RULES FOR DRUM SANDERS

⚠️ WARNING FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY.

1. **DO NOT OPERATE THIS TOOL UNTIL** it is **assembled** and **installed** according to the instructions.
2. **OBTAIN ADVICE** from your supervisor, instructor, or another qualified person if you are not familiar with the operation of this tool.
3. **FOLLOW ALL WIRING CODES** and recommended electrical connections.
4. **COVER POWER TAKE-OFF SHAFT** when not using accessories. Unguarded rotating shafts can create an **entanglement hazard** which can result in injury.
5. **USE A DUST COLLECTION SYSTEM** with this tool.
6. **CAUTION: THIS MACHINE IS DESIGNED TO SAND WOOD** or wood-like products only. Sanding or grinding metal could result in fire, injury, and/or damage to the product.
7. **CHECK THE TABLE BELT TRACKING** to prevent belt run-off.
8. **CHECK BELTS FOR WEAR** and for **tension**.
9. **CLEAR THE SANDING AREA** and **infeed/outfeed tables of all objects** (tools, scrap pieces, etc.) prior to starting tool.
10. **DO NOT** sand pieces of material that are shorter than 7" in length or thinner than 1/32".
11. **SUPPORT ALL SANDING WORKPIECES** with a table or additional support at table height. Curved work on an outer sanding drum is the only exception.
12. **DRESS PROPERLY. DO NOT WEAR LOOSE CLOTHING OR JEWELRY. CONTAIN LONG HAIR. KEEP YOUR HAIR, CLOTHING, AND GLOVES AWAY FROM MOVING PARTS.** Loose clothes, jewelry, or long hair can be caught in moving parts.
13. **PREVENT THE WORKPIECE FROM CONTACTING THE SANDING BELT** before starting the tool.
14. **AVOID AWKWARD HAND POSITIONS.** A sudden slip could cause a hand to contact the sanding belt.
15. **NEVER WEAR GLOVES** or hold the work with a rag when sanding.
16. **HOLD THE WORK FIRMLY** when sanding.
17. **SAND** with the grain of the wood
18. **FEED WORK** against the drum rotation.
19. **NEVER** perform layout, assembly, or set-up work on the tables when the tool is operating.
20. **DISCONNECT THE TOOL** from the power source before installing or removing accessories, before adjusting or changing set-ups, or when making repairs.
21. **DISCONNECT THE TOOL** from the power source, and clean the table/work area before leaving the tool. **LOCK THE SWITCH IN THE "OFF" POSITION** to prevent unauthorized use.
22. **ADDITIONAL INFORMATION** regarding the safe and proper operation of power tools (i.e. a safety video) is available from the Power Tool Institute, 1300 Sumner Avenue, Cleveland, OH 44115-2851 (www.powertoolinstitute.com). Information is also available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201. Please refer to the American National Standards Institute ANSI 01.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor OSHA 1910.213 Regulations.

SAVE THESE INSTRUCTIONS.
Refer to them often and use them to instruct others.

POWER CONNECTIONS

A separate electrical circuit should be used for your machines. This circuit should not be less than #12 wire and should be protected with a 20 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and matching receptacle which will accept the machine's plug. Before connecting the machine to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the machine. All line connections should make good contact. Running on low voltage will damage the machine.

⚠ DANGER DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.

MOTOR SPECIFICATIONS

Your machine is wired for 120 volt, 60 HZ alternating current. Before connecting the machine to the power source, make sure the switch is in the "OFF" position.

GROUNDING INSTRUCTIONS

⚠ DANGER THIS MACHINE MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

1. All grounded, cord-connected machines:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This machine is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the machine is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and matching 3-conductor receptacles that accept the machine's plug, as shown in Fig. A.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected machines intended for use on a supply circuit having a nominal rating less than 150 volts:

If the machine is intended for use on a circuit that has an outlet that looks like the one illustrated in Fig. A, the machine will have a grounding plug that looks like the plug illustrated in Fig. A. A temporary adapter, which looks like the adapter illustrated in Fig. B, may be used to connect this plug to a matching 2-conductor receptacle as shown in Fig. B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box. Whenever the adapter is used, it must be held in place with a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

⚠ DANGER IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE HAVE A QUALIFIED ELECTRICIAN CHECK THE RECEPTACLE.

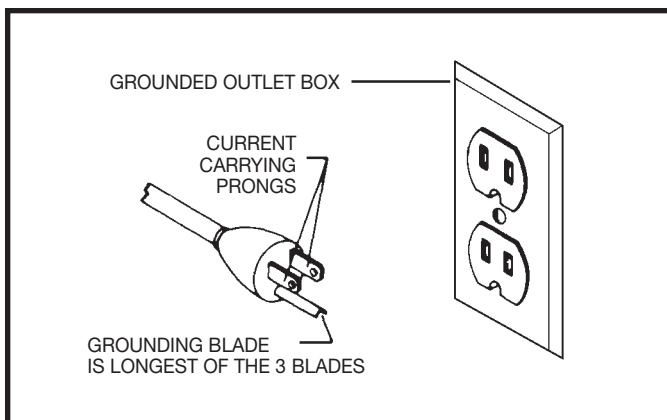


Fig. A

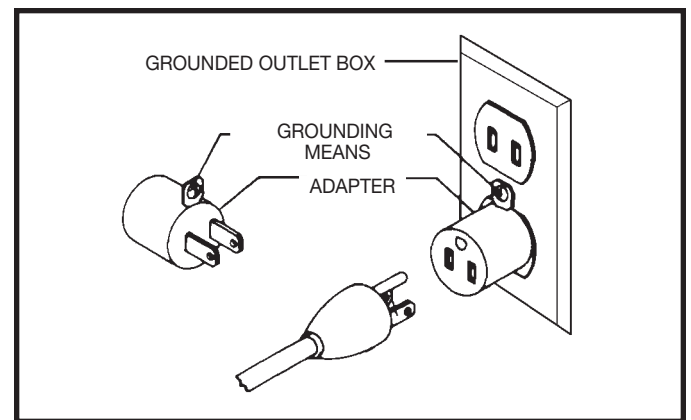


Fig. B

EXTENSION CORDS

CAUTION Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and matching receptacle which will accept the machine's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the machine. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. D, shows the correct gauge to use depending on the cord length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

MINIMUM GAUGE EXTENSION CORD			
RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC MACHINES			
Ampere Rating	Volts	Total Length of Cord in Feet	Gauge of Extension Cord
0-6	120	up to 25	18 AWG
0-6	120	25-50	16 AWG
0-6	120	50-100	16 AWG
0-6	120	100-150	14 AWG
6-10	120	up to 25	18 AWG
6-10	120	25-50	16 AWG
6-10	120	50-100	14 AWG
6-10	120	100-150	12 AWG
10-12	120	up to 25	16 AWG
10-12	120	25-50	16 AWG
10-12	120	50-100	14 AWG
10-12	120	100-150	12 AWG
12-16	120	up to 25	14 AWG
12-16	120	25-50	12 AWG
12-16	120	GREATER THAN 50 FEET NOT RECOMMENDED	

Fig. D

FUNCTIONAL DESCRIPTION

FOREWORD

The Delta Model 31-250 / 31-255X is an 18" x 36" drum sander with a two-speed drum. Its single-piece frame and cast-iron table construction provides accuracy, stability, and easy adjustments. This unit can be fitted with an optional outboard shaft that accommodates an accessory pneumatic drum for contour sanding. The 31-250 and 31-255X will provide accurate sanding for wood up to 18" in one pass (36" in two passes).

NOTICE: THE MANUAL COVER PHOTO ILLUSTRATES THE CURRENT PRODUCTION MODEL. ALL OTHER ILLUSTRATIONS ARE REPRESENTATIVE ONLY AND MAY NOT DEPICT THE ACTUAL COLOR, LABELING OR ACCESSORIES AND MAY BE INTENDED TO ILLUSTRATE TECHNIQUE ONLY.

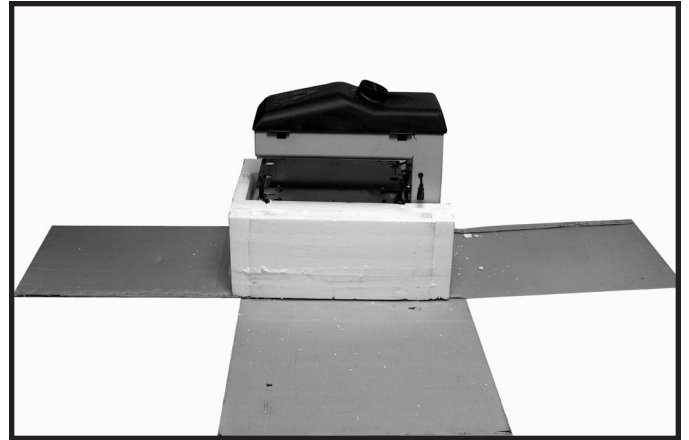
UNPACKING AND CLEANING

Carefully unpack the machine and all loose items from the shipping container(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

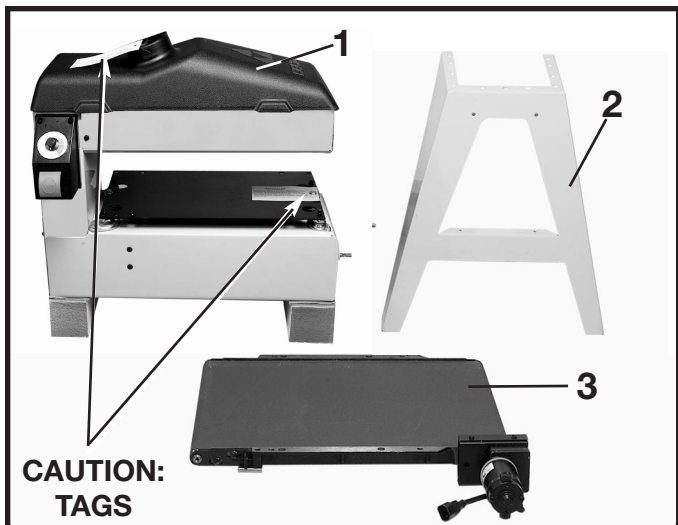
DRUM SANDER PARTS

CAUTION TAG

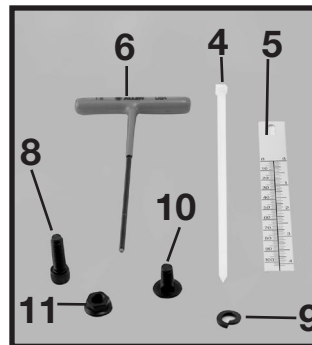
CAUTION: Pay close attention to caution tags attached to this machine and follow these instructions precisely. This machine is heavy. Remove the container from around the machine. **DO NOT** lift it from the container. Carefully unpack all loose items from the shipping container and cut the carton from around the machine.



CARTON CONTENTS



1. Drum Sander
2. Legs (2)
3. Feed Table
4. Cable tie (in instruction packet)
5. Thickness Scale (in instruction packet)
6. 1/8" T-Handle Hex Wrench(in instruction packet)



7. Table Raising Handwheel
8. 5/16-18 x 1" Socket Head Screws (4)
9. 5/16" Lock-washers (4)
10. 5/16-18 x 5/8" Carriage Head Screws (12)
11. 5/16-18 Flange Nuts (16)

ASSEMBLY

⚠ WARNING FOR YOUR OWN SAFETY, DO NOT CONNECT THE MACHINE TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL.

ATTACHING LEGS

⚠ CAUTION This machine is heavy. Use two or more people when lifting.

1. With the machine on its back, resting on the two wood blocks (not supplied), attach the legs. (Fig. 1). **NOTE:** The legs are universal but the mounting hole pattern is different front to rear. See (A) Fig. 2A and Fig. 2B.
2. Attach the leg that goes under the motor first. Insert six carriage head screws through the machine and the leg and secure with flange nuts (A) Fig. 2A. Attach the other leg to the machine using the remaining six carriage head screws and hex nuts. Tighten securely.
4. A cable tie is supplied with the machine to keep the power cord inside the leg assembly. Secure the power cord with the cable tie through hole (A) Fig. 2C.
5. **CAREFULLY** lift the machine upright.



Fig. 1

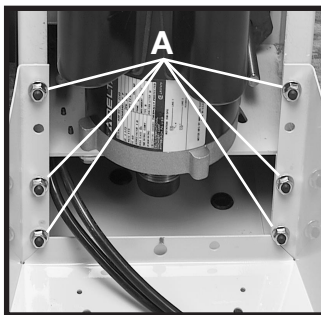


Fig. 2A

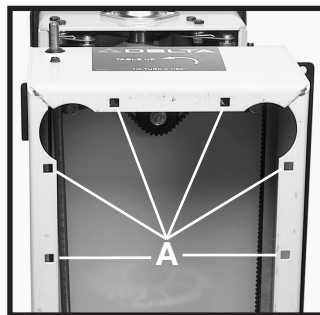


Fig. 2B

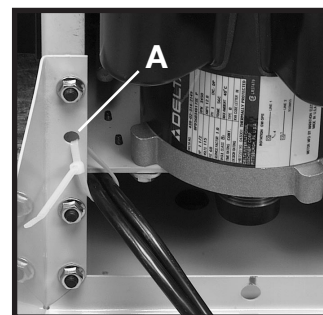


Fig. 2C

ATTACHING THE HANDWHEEL

1. Place handwheel (A) Fig. 3, on shaft (B) and align set screw with drilled recess in shaft.
2. Fasten the handwheel to the shaft by tightening the set screw (C) Fig. 4. Make sure set screw contacts the drilled recess in the shaft and not the O.D. of the shaft.
3. The machine is shipped with the support plate lowered to the bottom. Turn the handwheel counterclockwise two turns to raise the support plate off the bottom stops.



Fig. 3

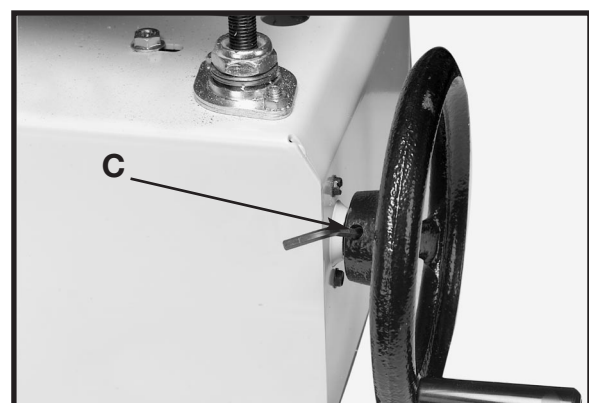


Fig. 4

ATTACHING AND LEVELING FEED TABLE

1. **CAUTION** Remove the front and rear shipping bolts that were installed to stabilize the support plate during transit. These bolts, one shown at (N) Fig. 5, should be removed before attaching table. Use a ½" wrench to hold hex stop post (S) then with another ½" wrench loosen and remove hex bolts (N)

NOTE: DO NOT remove the hex stop post (S) Fig. 5.

2. The abrasive belt and the motor for the feed table are shipped assembled. Place the feed table (A) Fig. 5 on the support plate (P), inserting the motor side first. Align holes in table (two of which are shown at C) with top of leveling screws (B).

CAUTION Make sure the table is not sitting on any of the lockwashers attached to leveling screws (B).

3. Fasten the table assembly (A) to the support plate (P) with four 5/16" socket head screws with lock washers through the holes (D), and secure with flange nuts, two of which are shown in (F) Fig. 6D. Tighten securely.

4. With a ½" wrench hold the hex top of the front, right leveling screw (L) Fig. 6A. Then using a 3/16" hex wrench loosen screw (B) four full turns. Turn leveling screw clockwise Fig. 6B until it no longer touches the support plate (P) as shown. Then turn it counterclockwise until it just touches the support plate (P) Fig. 6C without raising the plate as shown at (O). Hold the hex top of the leveling screw (L) Fig. 6A and tighten hex screw (B).

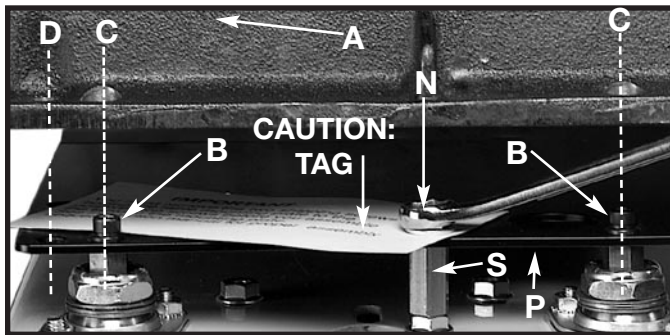


Fig. 5

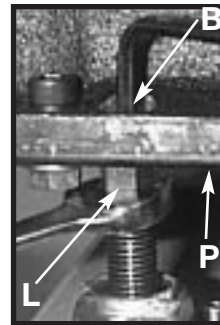


Fig. 6A

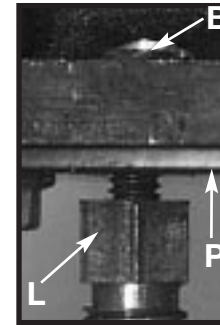


Fig. 6B

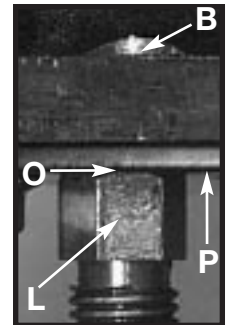


Fig. 6C

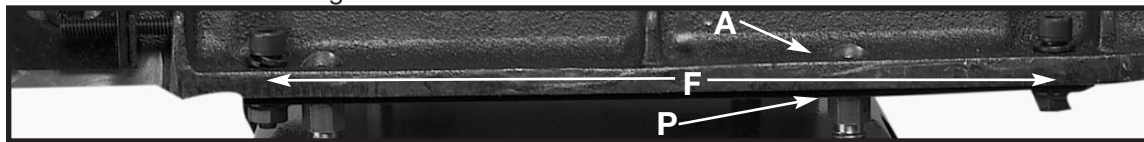


Fig. 6D

ATTACHING THICKNESS SCALE

1. Remove screw and washer (A) Fig. 7.

2. Place thickness scale (B) Fig. 8 over the hole and replace screw and washer (A).

3. Loosen screw (C) Fig. 9, and position pointer against scale (B) Fig. 9. Tighten screw (C) Fig. 9.

IMPORTANT: Refer to section "CHECKING AND ADJUSTING TABLE HEIGHT" in this manual for adjusting scale.



Fig. 7



Fig. 8



Fig. 9

CONNECTING FEED MOTOR TO FEED/SPEED SWITCH ASSEMBLY

WARNING The table feed motor (A) Fig. 10 is located on the side of the feed table (B). Before connecting the feed motor to the feed-speed switch disconnect machine from power source.

1. Insert the feed/speed switch assembly connector (C) Fig. 10 into the motor connector (D). Connector is polarized and will fit only one way.

CAUTION To avoid damage DO NOT connect the motor to any other power source.

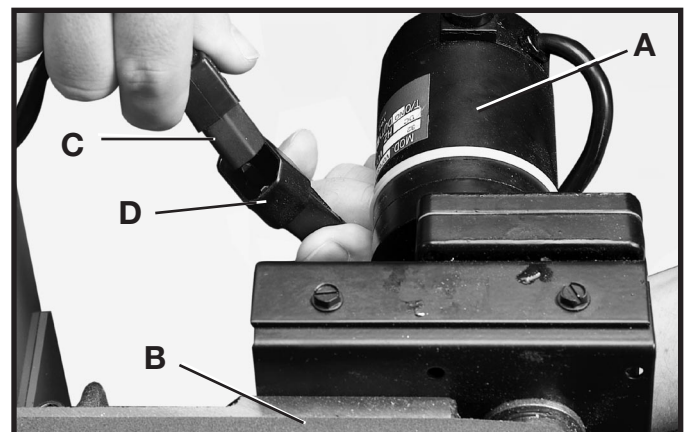


Fig. 10

OPERATING CONTROLS AND ADJUSTMENTS

STARTING AND STOPPING THE MACHINE

1. The drum motor on/off switch (A) Fig. 12 is located underneath the switch shield (B). To turn the drum "ON", move switch (A) to the "ON" (up) position.
2. To turn the drum "OFF", push down on switch shield (B) Fig. 13. **NOTE:** This switch only controls the drum. See "**TABLE FEED/SPEED SWITCH**" for feed table switch instructions.

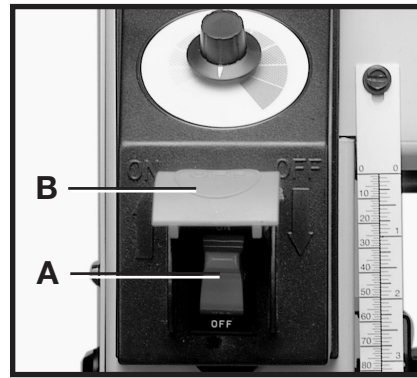


Fig. 12

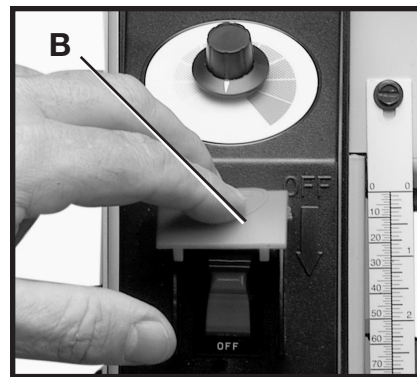


Fig. 13

LOCKING THE DRUM SWITCH IN THE "OFF" POSITION

IMPORTANT: When the machine is not in use, the switch should be locked in the "OFF" position to prevent unauthorized use, using a padlock (C) Fig. 14 with a 3/16" diameter shackle.

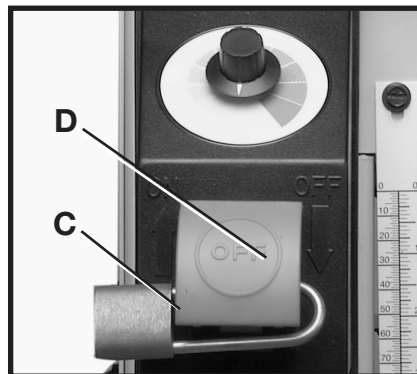


Fig. 14

TABLE FEED/SPEED SWITCH

The "FEED/SPEED" switch, (A) Fig. 15 is located above the drum motor on/off switch shield (B). Rotate the knob (A) Fig. 15 clockwise to turn the table motor on and continue to turn it in order to increase the table feed/speed rates and counter-clockwise to decrease the speed rates.

To turn the feed table "OFF", turn the knob in a counter-clockwise direction until it **CLICKS "OFF"**.

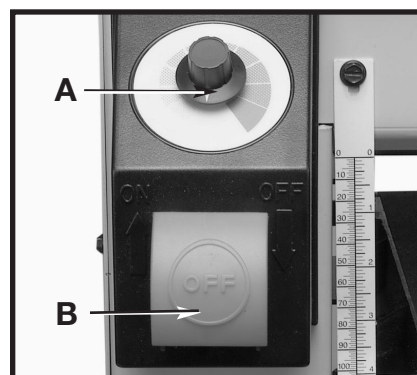


Fig. 15

RAISING AND LOWERING THE FEED TABLE

To raise the feed table, turn the handwheel (A) Fig. 16 counter-clockwise. To lower the feed table, turn hand-wheel, (A) Fig. 16 clockwise. **NOTE:** Each 1/4 turn of handwheel (A) will increase or decrease the height of the table by 1/64".

CHECKING AND ADJUSTING FEED BELT TRACKING AND TENSION

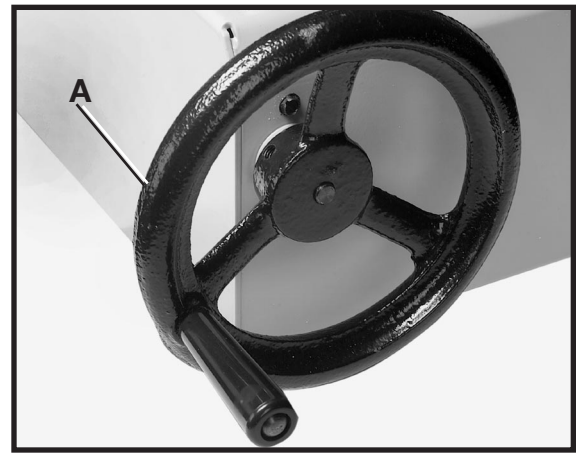


Fig. 16

IMPORTANT: READ THIS COMPLETE SECTION BEFORE MAKING ANY ADJUSTMENTS TO BELT TRACKING OR TENSION.

TRACKING

⚠ WARNING DISCONNECT MACHINE FROM POWER SOURCE.

IMPORTANT: The feed belt runs slowly, therefore response time to adjustments may also be slow. Take your time.

1. The tracking and tensioning of the feed belt has been set at the factory. Before making any adjustments place a reference mark on the table on either side of the belt using a lead pencil. Using a visual aid mark will help the user observe the direction of belt movement over time. Turn feed/speed knob (E) Fig. 17A "ON" and adjust to the **maximum speed**. Let the belt run and observe tracking direction. If the belt does not make any measurable side movement within five minutes of running, no adjustment is needed.

NOTE: With a new belt, it is not unusual for one side of the belt to be tighter than the other to make the belt track. Frequent adjustments are normal for the first few hours use to allow for belt stretch. Adjustments to belt tracking can also affect belt tension.

2. If belt (F) is tracking **to the right**, use the 1/8" T-handle hex wrench provided. Turn the right set screw (B) Fig. 17A clockwise 1/4 turn or less.

3. If belt (F) is tracking **to the left**, use the 1/8" T-handle hex wrench provided. Turn the right set screw (B) Fig. 17A counterclockwise 1/4 turn or less.

NOTE: Only adjust one side at a time and let the movement stabilize before adjusting again. Continue to tighten or loosen this adjustment until the feed belt is tracking properly.

TENSIONING

4. Belt tension adjustment is needed if the belt slips on the rear drive roller during sanding operations.

5. To adjust belt tension, turn both set screws (A) and (B) Fig. 17A (one is shown at (B) Fig. 17B) clockwise in 1/4 turn increments, until the feed belt is tensioned sufficiently to prevent slipping. **NOTE:** When adjusting belt tension, **turn both set screws the same amount. DO NOT** over tension the belt. Excessive tension will cause premature wear of belt, bearings and overload the motor. Listen for motor load speed changes when adjusting belt tension.

NOTE: Adjustments to belt tension can affect belt tracking. Frequent adjustments are normal for the first few hours use to allow for belt stretch.

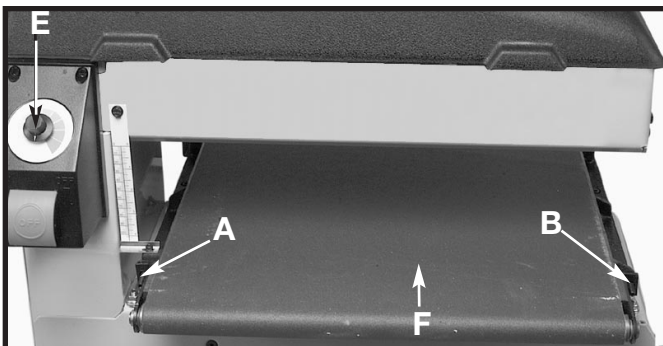


Fig. 17A

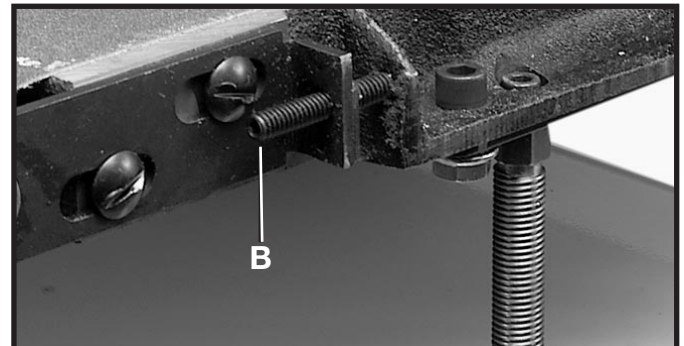


Fig. 17B

CHECKING AND ADJUSTING TABLE PARALLEL TO DRUM

NOTE: The table to drum parallelism (D) Fig. 18 has been set at the factory. Distance (D) should be the same front to back over the entire width of the feed belt. It is best to measure the board thickness at several places along the length and width to ensure parallelism. To check and/or to adjust parallelism (D) follow the steps below.

1. To check if the feed table is parallel with the drum cylinder, sand a wide board (B) Fig. 19A (preferably 12" or more in width x 2 feet long) until it is flat across the total surface area on both sides.

A. To do a quick check, draw pencil lines (C) Fig. 19B extending across the width of the board at several places along the length of the board. **DO NOT ADJUST THE TABLE HEIGHT AT THIS TIME.**

B. Reverse the board (end for end) and run the board through the sander. If the sanding table is set properly, the drawn lines will disappear. If the lines still appear on the left or right side of the board, the table height must be adjusted.

2. Use a 1/2" wrench to hold the leveling screws (E) and (F) Fig. 20. Insert 3/16" hex wrench (D), and loosen the hex screws. Rotate leveling screws (E) and (F) Fig. 20, one flat at a time until parallel. **NOTE:** One flat on the leveling screw will raise or lower the table .010". Turn leveling screw (E) Fig. 20 clockwise to lower the table or counterclockwise to raise the table. Adjust both leveling screws (E) and (F) the same amount and in the same direction.

3. Tighten screws loosened in **step 2**.

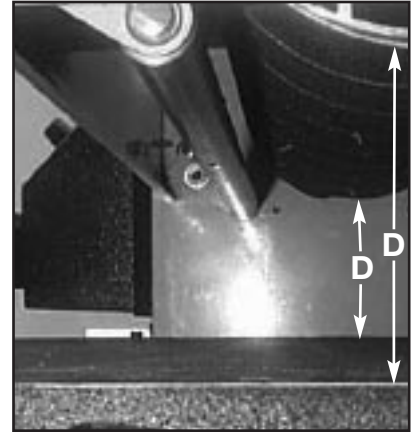


Fig. 18

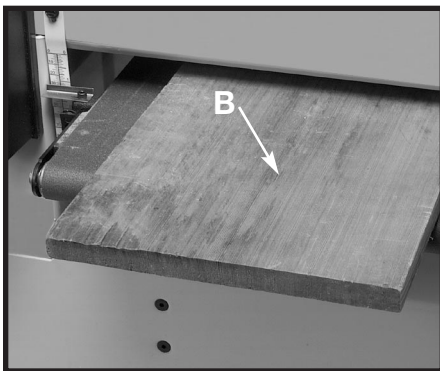


Fig. 19A

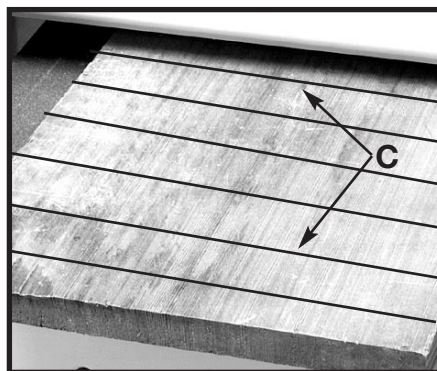


Fig. 19B

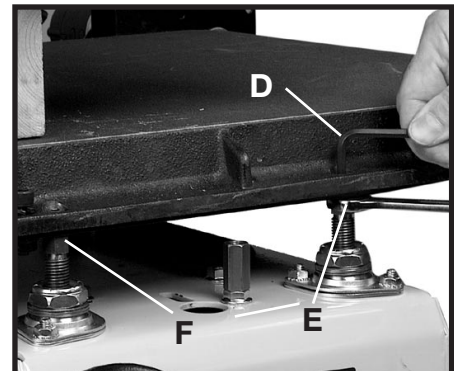


Fig. 20

SETTING THE HEIGHT SCALE

1. Run a piece of lumber through the drum sander (Fig. 22) to finish one side of the board.

2. Use a square (A) Fig. 23 to measure the thickness of the lumber.

3. Loosen the screw (B) Fig. 24. Move scale up or down until the cursor shows the exact board thickness that was measured in **STEP 2**. Tighten the screw.

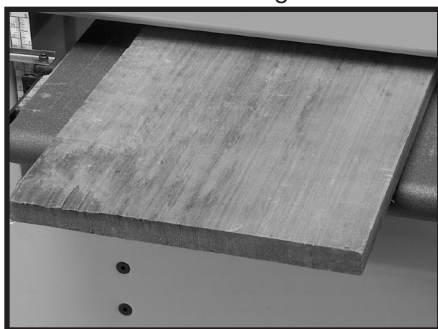


Fig. 22

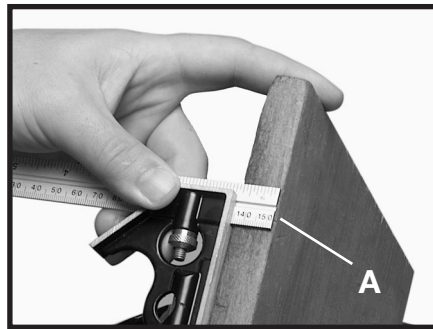


Fig. 23

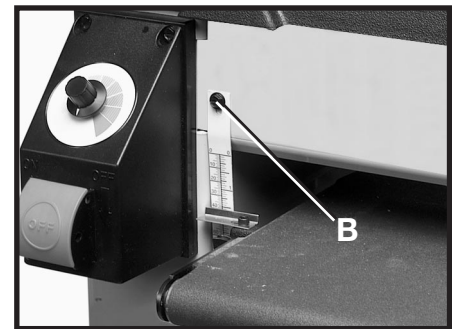


Fig. 24

CHANGING DRUM SPEEDS/REPLACING DRIVE BELT

The drum sander has two drum speeds - 2210 SFM or 3300 SFM, depending on the belt arrangement on the motor pulley and drum pulley.

To change the sanding drum speeds or to replace the drive belt:

⚠ WARNING DISCONNECT MACHINE FROM POWER SOURCE.

1. Raise the top drum cover (A) Fig. 25.

2. Remove the two hole plugs (B) Fig. 25.

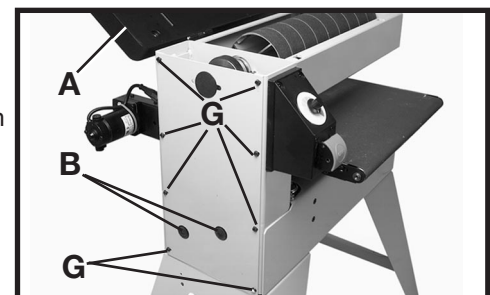


Fig. 25

3. Use a 9/16" socket with an extension (not supplied). Place it in one of the two holes where the hole plugs were removed. Loosen one hex bolt, then the other to relieve tension on the motor. (One is shown at (D) Fig. 26). Apply upward pressure on the motor (located under the machine) to relieve tension on the belt. Replace or change the belt positions on the pulleys. **IMPORTANT:** When the belt is on the inner pulleys (F) Fig. 26, the sanding drum speed is 3300 SFM. When the belt is positioned on the outer pulleys (G) Fig. 27, drum speed is 2210 SFM. **NOTE:** Position the poly-v drive belt on the pulleys correctly to provide maximum performance with minimal belt wear.

4. After the belt (E) Fig. 28 has been repositioned or replaced on the pulleys, apply downward pressure on the motor and tighten the two hex head bolts (D) (loosened in STEP 3).

5. Use light finger pressure on the belt (E) Fig. 28 midway between pulleys to check for proper tension. A deflection of approximately 3/16" is correct.

6. Replace the hole plugs (B) Fig. 25.

REMOVING AND REPLACING DRUM SANDING BELT

The drum sanding belt is held on the drum with a spring clip located on each side of the drum.

⚠ WARNING DISCONNECT MACHINE FROM POWER SOURCE.

1. Open drum cover (B) Fig. 31 to remove the sanding belt (A) Fig. 29.

2. Press spring clips (C) Fig. 29 together and remove one end of sanding belt (A). **NOTE:** Clip must be fully depressed against the drum support.

3. Rotate the drum, (D) Fig. 31 by hand until you reach the other end spring clip. Squeeze the spring clip to open and remove the sanding belt (A).

4. To replace the sanding belt, press spring clip (C) Fig. 30 together and insert one end of sanding belt (A) through the slot (S) in the drum and into the spring clip (C). The taper cut end of the sanding belt must line up with the edge of the drum.

5. Tightly wrap sanding belt (A) Fig. 31 around the drum cylinder (D), keeping each wrap close to the previous edge. **IMPORTANT: DO NOT OVERLAP THE EDGES OF THE SANDING BELT (A).** Insert the other end of the sanding belt into the left spring clip (C) Fig. 29 as tightly as possible.

6. The sanding belt will stretch during use. Periodically, press spring clip (C) Fig. 29 and reinsert stretched length into the clip.

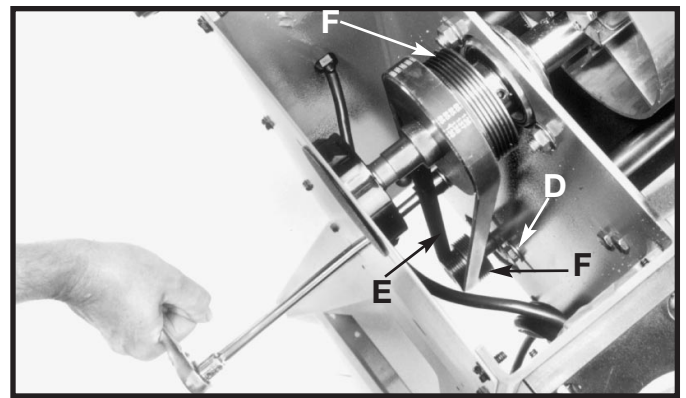


Fig. 26

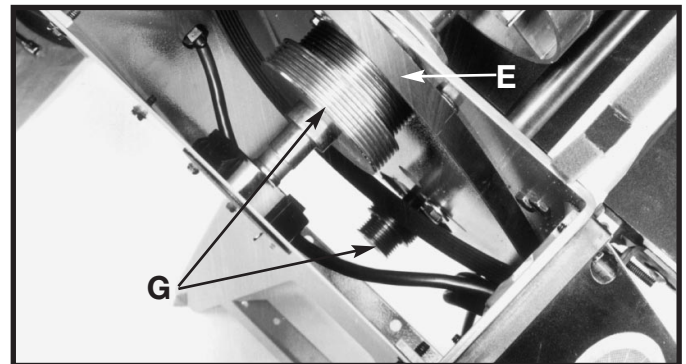


Fig. 27

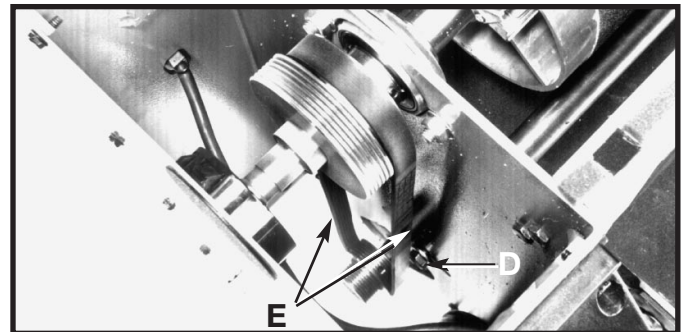


Fig. 28

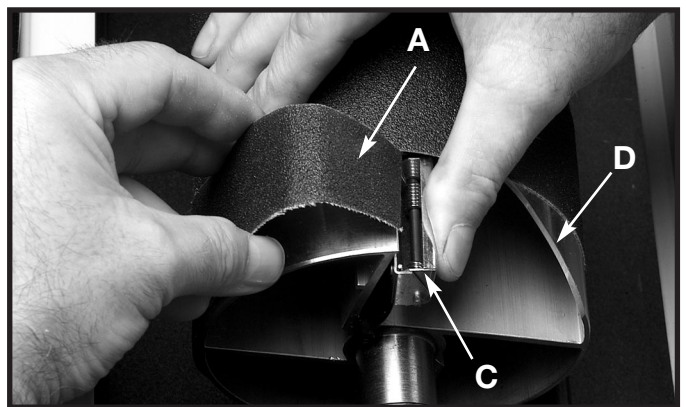


Fig. 29

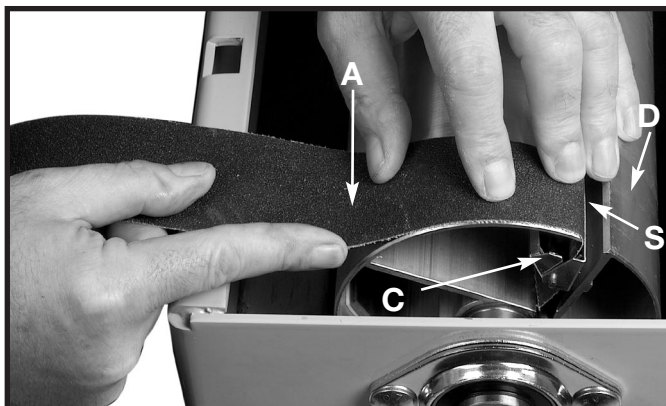


Fig. 30

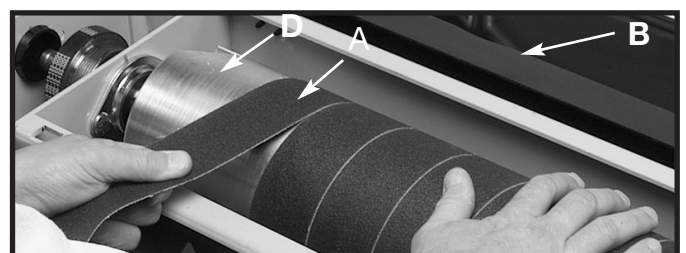


Fig. 31

REMOVING AND REPLACING FEED BELT

⚠ WARNING DISCONNECT MACHINE FROM POWER SOURCE.

1. Disconnect the DC Motor Quick Connect. (see Fig. 10).
2. Use a 1/4" hex wrench to remove the four table mounting screws, lockwashers and flange nuts, two of which are shown at (A) Fig. 32.
3. Remove the table, and place it on a firm supporting surface.
4. Loosen the two socket head set screws (D) Fig. 33A and Fig. 33B equally at each side of the table until tension is relieved on roller (E). **NOTE:** Count the number of turns as you loosen the screws.
5. Slide the feed belt (A) Fig. 34, off table (B). Place the new feed belt on the table and re-apply slight tension to the feed belt roller (E) Fig. 33A, by turning two screws (D). Tighten both screws an equal amount until at least one side of the belt starts to get tight. **NOTE:** The number of turns to tighten should be less than the number loosened in **step 4**.
6. Attach the table (F) Fig. 33A, to the support plate and adjust the tension and tracking on the feed belt. Refer to section **"CHECKING AND ADJUSTING TRACKING AND TENSION ON THE FEED BELT"** in this manual.

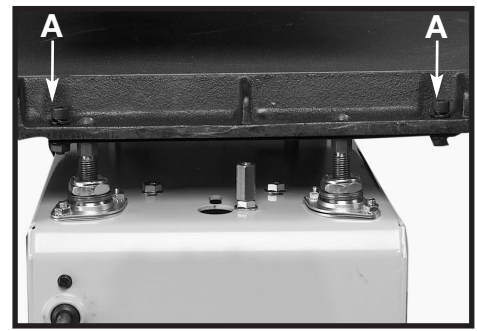


Fig. 32

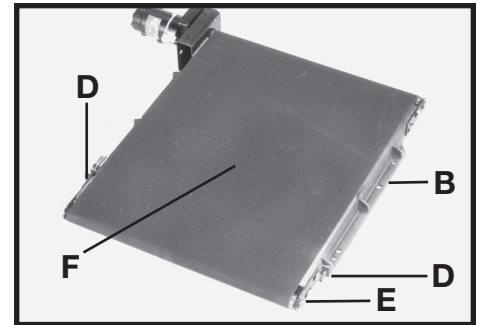


Fig. 33A

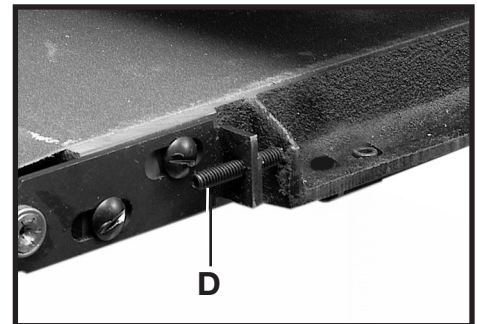


Fig. 33B

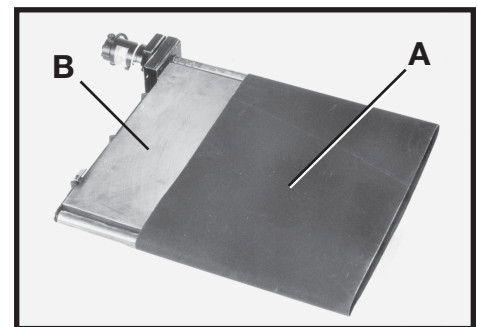


Fig. 34

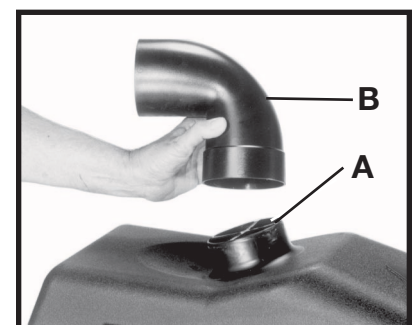


Fig. 35

DUST COLLECTION

The drum cover has a 4" O.D. dust chute (A) Fig. 35 that connects to a dust collection system.

CAUTION NEVER OPERATE THIS MACHINE WITHOUT FIRST CONNECTING IT TO A DUST COLLECTION SYSTEM. It is recommended that a dust collection system be used with at least 400 to 600 CFM capacity.

Attach a 4" hose to the hood, or attach an accessory dust collector elbow (B) Fig. 35 to the dust chute (A). Attach the dust collection system to the elbow (B).

⚠ WARNING FOR OPERATOR SAFETY, NEVER PUT FINGERS OR ANY OTHER FOREIGN OBJECT IN THE DUST CHUTE.

FREQUENTLY ASKED QUESTIONS

WHAT FACTORS AFFECT SANDING OPERATIONS?

A. SANDING BELT GRIT

1. 36 grit – Used for very aggressive stock removal, glue removal, or for sanding rough boards. Leaves a rough finish.
2. 60 grit – Used for heavy stock removal and rough surfaces, and for truing warped material. Leaves a rough finish.
3. 80 grit – Used for general purpose sanding, stock removal, surfacing, and rough finishing. Leaves a marked finish.
4. 120 grit – Used for minimal stock removal and for finishing. Leaves a fine marked finish.
5. 180 grit. – Used for fine finishing. Leaves a smooth finish.
6. 220 grit – For very fine finishing. Leaves a very smooth finish.

For best results, sand first with a coarse grit belt, and work toward a finer grit belt.

IMPORTANT: Sanding progression should not exceed more than two belt grits at one time. Watch for the sawdust loading and dulling of the grit. The extra load will cause the sander to work inefficiently.

B. WIDTH OF BOARD

As board width increases the load on the belt and motor also increases. This additional loading can be reduced by:

- a. reducing the conveyor belt speed.
- b. reducing the depth of stock removal.

NOTE: The sander will remove stock to a maximum width of 18" in one pass.

C. TYPES OF WOOD

Hardwoods (oak, hickory, cherry), knots, rosin, or wet wood all place a heavy load on the sander. To make your sander work more efficiently:

- a. reduce the conveyor belt speed.
- b. reduce the depth of stock removal.

D. CONVEYOR BELT SPEED

The conveyor belt speed is 0 - 12 feet per minute.

To control the speed of the conveyor belt, turn the knob counter-clockwise to slow it down and clockwise to speed it up.

Stock can be removed more quickly by using a fast speed, but the machine works much harder, and the wood is left with a rougher finish. Slowing the speed will lighten the load of the sander, and make the finish better, but it will increase the sanding time.

WHEN DO I CHANGE THE DRUM SPEED?

The machine has two drum settings:

- a. High Speed (3300 Surface Feet Per Minute). This setting should mostly be used with a finer grit belt with the conveyor belt speed set to very slow. The material removal should be set at a very low amount, with increases not to exceed 1/16 of a handwheel turn. Example: A 1/4 turn is 90 degrees, 1/8 turn is 45 degrees, 1/16 turn is 22.5 degrees.
- b. Low Speed (2210 Surface Feet Per minute). Used for general purpose sanding, stock removal, surfacing, and rough finishing.

The machine is shipped from the factory set on the low speed. To change to the higher speed, refer to “**CHANGING DRUM SPEEDS/REPLACING DRIVE BELT**” in this manual for instructions.

WHAT IS RECOMMENDED FOR DUST COLLECTION

1. It is recommended that a dust collection system be used with at least 400 to 600 CFM capacity.

HOW DO I SAND FACE FRAMES and RAISED PANEL DOORS.

1. Some doors have boards with the grain running at 90 degrees. We suggest using finer grit paper, removing minimal amount of stock, and slowing down the feed rate.

WHAT CAUSES BURN MARKS

Burning the wood can be caused by several things. We suggest checking for; sanding belt overlap on the drum wrap, sanding paper loading up, too much stock removal with too fine a grit paper, too slow a feed rate, and dull or worn sand paper.

WHEN DO I MAKE TABLE HEIGHT ADJUSTMENTS FOR MATERIAL REMOVAL?

Locate the handwheel on the right side of the machine. To raise the table, turn the wheel counter-clockwise. To lower, turn the wheel clockwise.

Normal adjustments for sanding belt grits 36 through 80 are:

1/4 turn – For normal material removal (1/64" or .0150")

1/8 turn – For normal finishing (1/128" or .0075")

1/16 turn – For last finishing passes

On last finishing passes, pass the board through two or three times to level hard spots or knots.

NOTE: For sanding belts over 100 grit use one half or less of the above adjustment values.

WHAT ARE THE MAXIMUM AND MINIMUM SANDING STOCK SIZES?

a. Maximum width - 18" in one pass - 36" in two passes.

b. Minimum width - None - (**IMPORTANT:** Be certain with narrow stock that the stock width is equal to, or greater than, the stock thickness).

c. Maximum length - Infinite - The unit can sand boards 6' or shorter with no additional support. For longer boards, use an accessory Infeed/Outfeed Table or a roller stand.

HOW DO I SAND MULTIPLE BOARDS?

The sander will handle multiple boards at the same time. Work with each individual piece until they are approximately the same thickness. Then sand them as a group.

The sander will accept more than one board at a time if the total width is 16" or less and are the same thickness. Pass the first board. When it reaches the rear pressure roller, start another board on the other side of the table. Depending on the width, several boards can go through the sander at one time. Do not sand the edge if boards are over 4" wide.

NOTE: Because multiple board sanding will cause the sander to have a heavier load, either slow the feed or reduce the table height.

HOW DO I SAND THE EDGES OF BOARDS?

First, be certain that the opposite side from the side to be sanded is even and level. If it is not, then it may need to be cut. Sand the board, turn it over and sand the other side.

If the board is thin or tall when turned on its side, clamp several pieces of wood together to prevent tipping.

HOW DO I SAND CUPPED, BOWED, OR TWISTED BOARDS?

Cupped boards can be a problem. If the bow is along the width of the board, then first place the cupped side of the board down. Set your sander table height to the tallest portion of the bowed board. Pass the board through several times until a fairly good portion is flat. Turn the board over and sand the cupped side until the board has a small flat area on each side. Alternate sanding on each side until you are satisfied with the result.

Bowed boards that are longer than the table cannot be cleaned sufficiently. However, if the board is table length or shorter, set your table height to the maximum height of the board. Place the bowed side down and sand until you are satisfied. Then turn the board over, and clean that side.

Twisted boards can be a difficult project. Small boards will provide some success, but longer boards are almost impossible. However, for best results, alternate sanding first one side of the board, then the other.

HOW DO I SAND GLUED BOARDS?

1. Glue the boards as flat as possible at the outset.
2. Remove excess glue from the top and bottom before it dries.
3. Use a coarse belt for initial stock removal (36 to 60 grit).
4. Run the board at different locations over the entire length of the drum to prevent glue build-up on the sanding belt.
5. After glued joints are cleaned, change the sanding belt to an 80 grit. Work your way to the finer grit until you are satisfied with the result.

HOW DO I SAND BOARDS WIDER THAN 18"?

IMPORTANT: When sanding pieces wider than 18", if the drum is not parallel to the table a step or line will result. It is best to set the open side a few thousandths of an inch more open to allow sanding a crown rather than a groove. (See Fig. 36)

Sanding wide boards requires two separate passes. Set the table height to the board maximum thickness, and make a pass. Then, without changing the table height, rotate the board 180 degrees and sand the other half of the board. Adjust the table height and repeat the two sanding passes. Continue until you are satisfied with the result.

NOTE: Provide support for the part of the board that is not on the table during each pass.

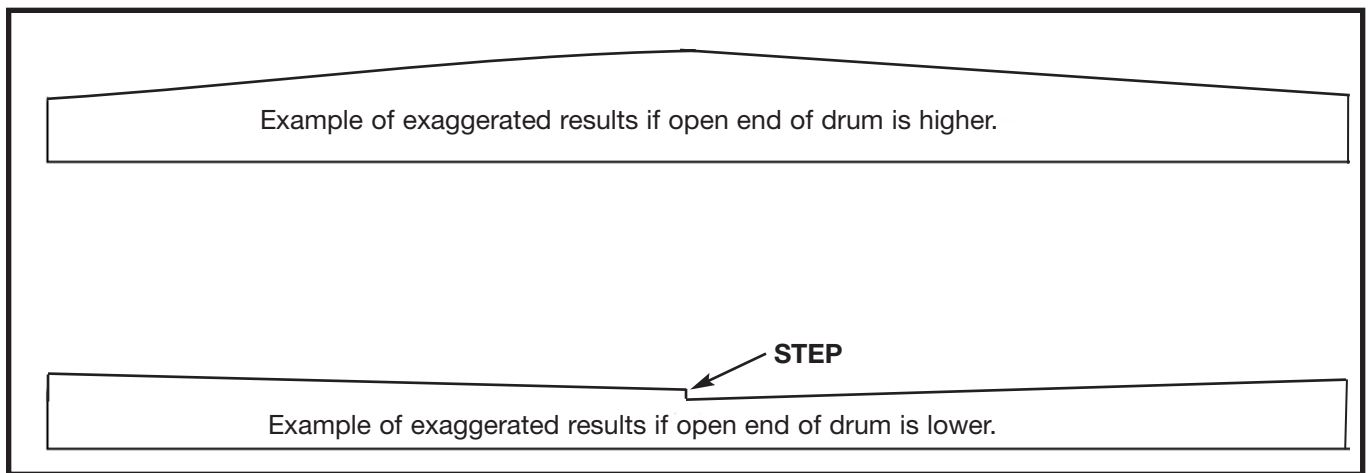


Fig. 36

HOW DO I GET STARTED?

1. To gain experience, use scrap wood. Start with stock that is 2' to 4' long. These will be easier to control and to feed. Use different wood types and different widths.
2. To see how the sander works, measure the thickness of your stock. Set the table height to that thickness and then lower it 1/4 turn. Turn the drum switch "ON" and then turn the table feed belt speed to 50% (indicator line on the knob vertical). If the drum does not contact the stock, raise the table height slowly while feeding the stock through, until you see that it is sanding. Let the board feed through. Turn the handle 1/4 turn to raise the table height and make another pass. Increase the conveyor speed as you gain confidence.

TIPS FOR INCREASING SANDING BELT LIFE:

1. When the belt becomes dull, remove and reverse the belt.
2. When the belt becomes loaded with build up, soak the belt in paint thinner or mineral spirits for 20 minutes to one hour to loosen the build up. Then use a standard hand held wire brush and clean the belt. Allow the belt to dry completely before using.
3. When sanding boards under 9" wide, place the board through the sander at a slight angle (60 degrees). This will spread the sanding action out over a larger area of the drum rather than in one area. Then make the finish pass with the grain.
4. Delta offers a full line of sanding belts, in all grit sizes, in both bulk rolls and pre-cut strips.
5. When sanding narrow boards, run them through at different locations over the entire width of the drum.

TABLE MOVEMENT TROUBLESHOOTING GUIDE

In the event your table will not adjust properly, or is tight when adjusting up and down, or the timing belt is jumping teeth, this guide provides the information necessary to realign the table mechanism and adjust the belt tension.

⚠ WARNING DISCONNECT THE MACHINE FROM POWER SOURCE BEFORE SERVICING, MAKING REPAIRS, OR WHEN CHANGING ACCESSORIES.

The Drum Sander feed table should adjust up or down with 35 in-lbs. of torque or less. If more torque is required, then an adjustment may be needed. If you hear a clicking or knocking noise as you turn the handwheel, the timing belt is most likely jumping teeth and an adjustment will be needed. Below are the four areas that most affect the table movement. Start at the top of this trouble-shooting guide and check the first item before proceeding to the next. Once the table movement frees up there is no need to proceed through the remaining steps.

STEP 1 - TENSION ON TIMING BELT

1. The timing belt should be checked for the correct tension. If the belt is too tight, the table will be difficult to move. A loose timing belt may cause the belt to jump a tooth on the timing gear. Deflection in the middle of the long span should be 2 - 3 lbs to deflect the belt to the outside frame wall.

2. To adjust the timing belt tension, first loosen the tension. To do this, find one of the timing belt idler rollers under the right hand end of the unit between the timing gears, and with a ½" wrench loosen the screw (the nut for this screw can be seen on the topside of the base).

CAUTION Do not rotate table-elevating handwheel while the belt tension is relaxed.

3. With the ½" wrench still on the idler screw under the unit, push the slack of the belt toward the column end of the unit, and tighten the screw. **CAUTION** Be careful not to over-tighten the nut, because it might crush the spacer inside. Approximately 50 in-lbs. of torque will be sufficient. To be certain that the spacer is not damaged, grasp the idler roller. If it can be moved approximately 1/8" vertically, the spacer is all right.

4. With the proper belt tension try to adjust the table.



Fig. 37

STEP 2 - CHECKING THE TABLE SUPPORT PLATE

1. The table support plate must be mounted in a flat plane and parallel (D) Fig. 38 to the drum. Check this with the table mounted to the support plate. Use a 3/16" hex wrench and ½" open end wrench to loosen the four hex screws that attach the support plate to the elevating screws. Place a block of wood (W) Fig. 37, metal, etc. approx. ¾" wide x 2" to 3" tall, under the table support plate, on the unit base next to one of the elevation screws. Turn the elevating screw up or down until the support plate barely clears the block. **REPEAT** the clearance check at each of the other three elevation screws. They should be within 1/64" of each other [See (O) Fig. 40].

2. While holding the ½" hex on the screw, to prevent it from turning, retighten the four hex screws.

3. With a ½" wrench and a 3/16" hex wrench, loosen the front right socket head screw (B) Fig. 38 four full turns[See (S) Fig. 39]. Turn the elevating screw clockwise until it no longer touches the plate (P) Fig. 39. Then turn the same screw counterclockwise until it just touches the support plate without raising it (O) Fig. 40. Hold the elevating screw(L) Fig. 38 with the ½" wrench to keep it

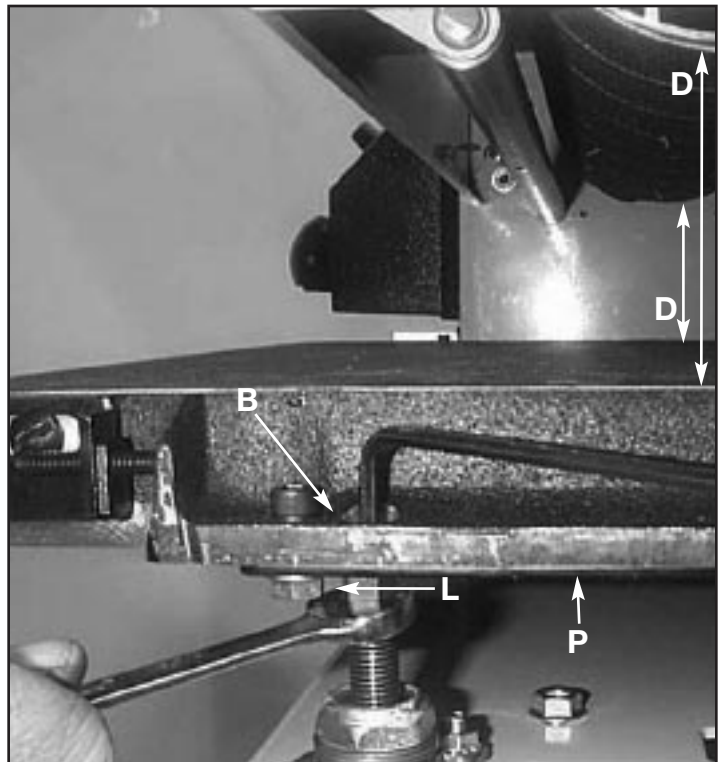


Fig. 38

from turning and tighten the socket head screw(B) with the 3/16" hex wrench.

4. With the support plate level, try moving the table up and down.

5. If the movement is still tight, go back through this procedure before going to the next step of **CHECKING LOCK NUT ADJUSTMENT.**

STEP 3 - CHECKING LOCK NUT ADJUSTMENT

1. At the base of three of the elevating screws there is a 3/4" lock nut (B) Fig. 41. Under this nut is a thrust washer, thrust bearing, and another thrust washer. [See (T) Fig. 41]. **Note:** The front left elevating screw uses a jam nut and it should be tight.

2. The lock nut should be tightened so that you can grasp the thrust washers between finger and thumb and slide them side to side without much difficulty, but you should not be able to move them up and down any.

3. If the lock nut is too tight, the table will be hard to move (within 35 in-lbs.). If the lock nut is too loose, sanding will not be accurate.

4. If an adjustment is needed you will need to find the 2" hex on the under side of the unit under the elevating screw. Hold this with a 2" open wrench or a pair of pliers. With a 1 1/16" wrench loosen or tighten the lock nut on the topside. **Note:** Adjustments should be made in 1/16 turn at a time, or less, to prevent damage.

STEP 4 - ALIGNING ELEVATING SCREW BUSHINGS

1. Make sure the four table mounting screws, nuts, and also the four screws that attach the elevating screws to the support plate, are tight.

2. Loosen the timing belt tension (see above).

3. With a 7/16" open end wrench loosen (do not remove) the four nuts (N) Fig. 41 bolting the sheet metal flanges around the two elevating screws on the open end of the unit.

4. Pick up on the right end of the table to make sure the sheet metal flanges are free. Let the table sit back down and shake it slightly to properly position it.

5. Retighten the four hex nuts. Tension the belt (See "**TENSIONING**" section of this manual).

6. If the table movement is still tight, loosen the belt tension, and loosen the two nuts on the sheet metal flanges on the front left elevating screw sheet metal flanges. Use a 1/2" open end wrench for this.

7. Once the nuts are loose, raise the table to insure the flanges are free. It might be necessary to use a screw driver to pry the two flanges apart to free them.

8. Retighten the two hex nuts. Tension the belt.

9. With the proper bushing alignment try to adjust the table.

NOTE: After completing the above adjustments, the torque required to move the table assembly should fall within the prescribed 30 in-lbs. If it will not, go back through the entire procedure again.

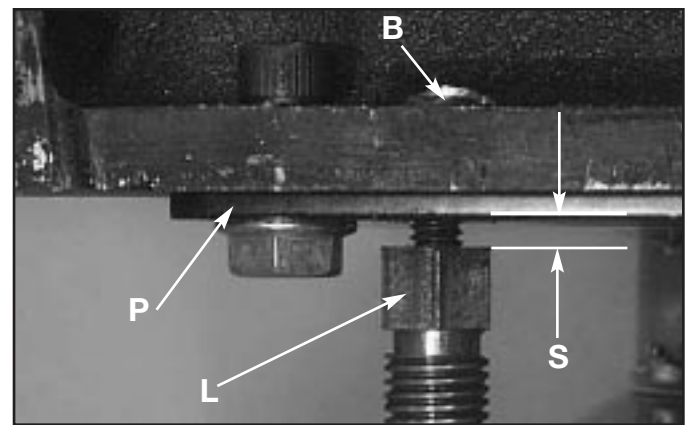


Fig. 39

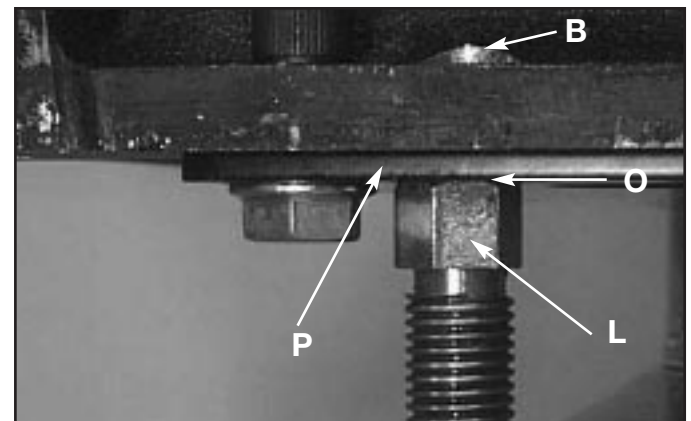


Fig. 40

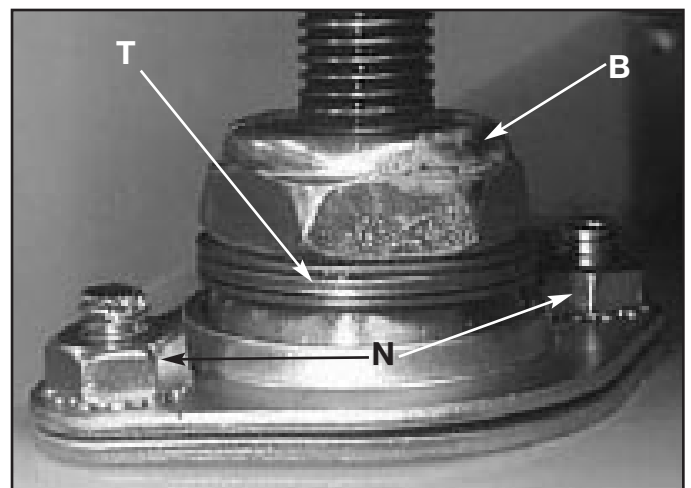


Fig. 41

MAINTENANCE

⚠ WARNING MAKE CERTAIN THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE PERFORMING MAINTENANCE PROCEDURES.

1. Periodically clean or vacuum the feed belt.
2. Periodically clean the sawdust from sanding cylinder cavities.
3. Oil all bushings on the feed table rollers and front and rear pressure rollers.
4. Oil thrust bearings on feed table screws [See (T) Fig. 41.]

BRUSH INSPECTION AND REPLACEMENT

CAUTION: BEFORE INSPECTING BRUSHES, DISCONNECT THE MACHINE FROM THE POWER SOURCE.

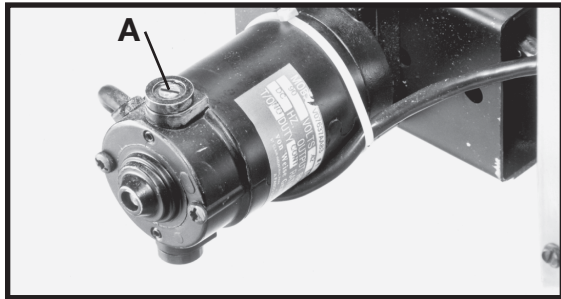


Fig. 42

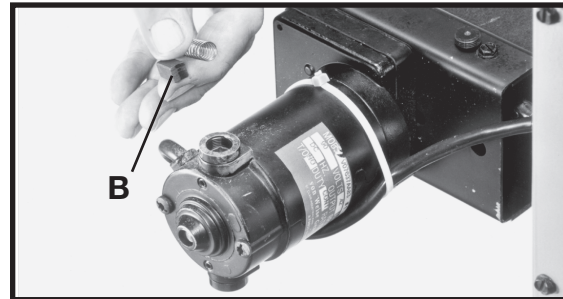


Fig. 43

Brush life varies, depending on the motor load. Check the brushes after the first 50 hours of use for a new machine or periodically after a new set of brushes has been installed.

After the first check, examine the brushes every 10 hours (approximately) until replacement is necessary.

The brush holders (A) Fig. 42, are located on the DC motor housing opposite each other. Fig. 43, illustrates one of the brushes removed for inspection. When the carbon on either brush (B) Fig. 43 is worn to 3/16" or less, or if the spring is burned or damaged, replace both brushes. If the brushes are found serviceable after removal, reinstall them in the same position as removed.

DRUM MOTOR OVERLOAD PROTECTION

The drum motor is equipped with a re-settable overload relay. If the motor fails to start because of overloading or because of low voltage, turn both switches to "OFF". Let the motor cool for 3 to 5 minutes, then push the reset button (A) Fig. 44. Start the machine.



Fig. 44

FEED BELT MOTOR OVERLOAD PROTECTION

The feed belt motor is equipped with a re-settable overload relay. If the feed belt is tensioned too tightly, the feed belt overload may trip. To correct, loosen the tension on both sides of the feed belt, 1/4 turn at a time on the tensioning set screw on each side of the feed belt. Push the reset button (B) Fig. 45.

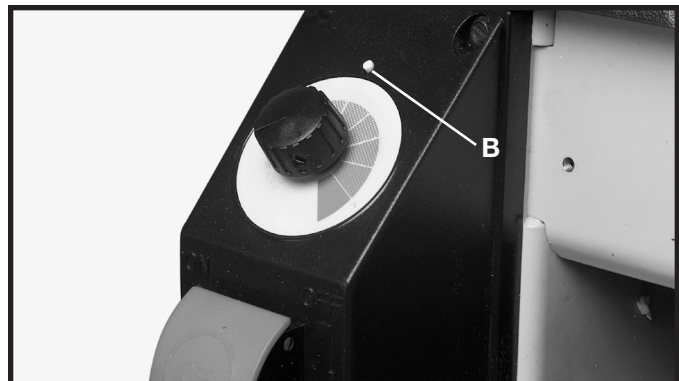


Fig. 45

NOTES

NOTES

ACCESSORIES

A complete line of accessories is available from your Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Delta Authorized Service Stations. Please visit our Web Site www.deltamachinery.com for a catalog or for the name of your nearest supplier.

▲WARNING Since accessories other than those offered by Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Delta recommended accessories should be used with this product.



PARTS, SERVICE OR WARRANTY ASSISTANCE

All Delta Machines and accessories are manufactured to high quality standards and are serviced by a network of Porter-Cable • Delta Factory Service Centers and Delta Authorized Service Stations. To obtain additional information regarding your Delta quality product or to obtain parts, service, warranty assistance, or the location of the nearest service outlet, please call 1-800-223-7278 (In Canada call 1-800-463-3582).



Two Year Limited New Product Warranty

Delta will repair or replace, at its expense and at its option, any new Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. For all refurbished Delta product, the warranty period is 180 days. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

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Fax: (909) 390-5554

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Unit #107
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Fax: (954) 321-6638

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Fax: (781) 848-6759

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Fax: (508) 528-8089

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Fax: (763) 561-0653

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Fax: (314) 968-2790

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Phone: (704) 841-1176
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Fax: (614) 263-1238

Cleveland 44125
8001 Sweet Valley Drive
Unit #19
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Fax: (216) 447-3097

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Phone: (503) 252-0107
Fax: (503) 252-2123

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Fax: (215) 658-1433

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Fax: (972) 446-8157

Houston 77055
West 10 Business Center
1008 Wirt Road, Suite 120
Phone: (713) 682-0334
Fax: (713) 682-4867

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3320 West Valley HWY, North
Building D, Suite 111
Phone: (253) 333-8353
Fax: (253) 333-9613

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Fax: (403) 735-6144

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Phone: (204) 633-9259
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Phone: (519) 836-2840
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